

Title (en)  
Insertion device for surgical apparatus

Title (de)  
Einführungsvorrichtung für chirurgisches Instrument

Title (fr)  
Dispositif d'insertion pour un instrument chirurgical

Publication  
**EP 1036544 A1 20000920 (EN)**

Application  
**EP 00104568 A 20000314**

Priority  
JP 7316299 A 19990318

Abstract (en)  
There is provided an operating instrument insertion apparatus capable of easily inserting an operating instrument into the tissue. The operating instrument insertion apparatus includes a hollow tubular member 2 for receiving an operating instrument therein, and a plurality of scoop-like members 11 and 12 provided at a distal end of the hollow tubular member 2. The plurality of scoop-like members 11 and 12 can be opened in such a manner that distal ends of the scoop-like members are moved away from each other in a direction transverse to a direction of insertion of the scoop-like members into the tissue, and the plurality of scoop-like members 11 and 12 can be closed in such a manner that the distal ends of the scoop-like members are moved toward each other in this transverse direction. <IMAGE>

IPC 1-7  
**A61B 17/02**; **A61B 17/34**

IPC 8 full level  
**A61B 17/00** (2006.01); **A61B 17/02** (2006.01); **A61B 17/24** (2006.01); **A61B 17/34** (2006.01); **A61B 10/00** (2006.01); **A61B 10/06** (2006.01); **A61B 19/00** (2006.01)

CPC (source: EP US)  
**A61B 17/0218** (2013.01 - EP US); **A61B 17/3417** (2013.01 - EP US); **A61B 10/06** (2013.01 - EP US); **A61B 90/361** (2016.02 - EP US); **A61B 2017/3445** (2013.01 - EP US); **A61B 2090/08021** (2016.02 - EP US)

Citation (applicant)  
JP H09140659 A 19970603 - FUJII PHOTO OPTICAL CO LTD

Citation (search report)  
• [XY] WO 8303189 A1 19830929 - LASERSCOPE INC [US]  
• [Y] US 5445142 A 19950829 - HASSLER JR WILLIAM L [US]  
• [X] WO 9411052 A1 19940526 - KO SUNG TAO [US]  
• [X] US 2621651 A 19521216 - WALLACE FREDERICK J  
• [X] US 1624716 A 19270412 - FERDINANDO CERBO  
• [X] DE 19605615 A1 19970821 - WOLF GMBH RICHARD [DE]

Cited by  
EP2346417A4; AU2003231858B2; EP2070484A1; AU2006200776B2; EP1707132A3; WO2004037097A1; WO2007018458A1; US8888813B2; US9610095B2; US7618367B2; US7182729B2; US7988625B2; US7604648B2; US7470230B2; US7056329B2; US10610258B2; US11559327B2

Designated contracting state (EPC)  
DE FR

DOCDB simple family (publication)  
**EP 1036544 A1 20000920**; **EP 1036544 B1 20050817**; CA 2300327 A1 20000918; CA 2300327 C 20040518; DE 60021937 D1 20050922; DE 60021937 T2 20060608; JP 2000262527 A 20000926; JP 3596340 B2 20041202; US 2002169362 A1 20021114; US 6497651 B1 20021224; US 6770026 B2 20040803

DOCDB simple family (application)  
**EP 00104568 A 20000314**; CA 2300327 A 20000309; DE 60021937 T 20000314; JP 7316299 A 19990318; US 18003002 A 20020627; US 52085000 A 20000308